PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCF Rule 44bis)

Applicant's or agent's file reference CAM16 (WO)	FOR FURTHER ACTION	See from 4 below				
No. 1 to the contract of the c	international filing date (day/month/year) 13 July 2006 (13.07.2008)	Priority date (day/month/year) 14 July 2005 (14.07.2005)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant CAMBRIDGE LABORATORIES (IRELAND) LIMITED						

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Anthority under Rule 44 his I(a).				
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.				
		nence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.			
3.	. This report contains indications relating to the following items:				
	Box No. 1	Basis of the report			
	Box No. H	Priority			
	Box No. BI	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Luck of pany of invention			
	Box No. V	Reasoned statement under Article 35(2) with negard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.:		communicate this report to designated Offices in accordance with Kules 44bis 3(c) and 93bis 1 but makes an express request under Article 23(2), before the experation of 30 mouths from the prentity			

	Date of isseance of this report 16 January 2008 (16.01.2008)
The International Bursan of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Nora Lindner
Facsimile No. +41 22 338 82 70	e-inuit: pr02.per@wips.int

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA@10 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below international application No. international filing date (day/nonth/year) Priority date (day/month/year) PCT/GB2006/002593 13.07.2006 14.07.2005 International Patent Classification (IPC) or both national classification and IPC INV. A61K31A73 A61P25/14 Applicant CAMBRIDGE LABORATORIES (IRELAND) LIMITED This opinion contains indications relating to the following items: IXI Box No. I Basis of the opinion D Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66,1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For lurther options, see Form PCT/SA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA; Date of completion of Authorized Officer this opinion European Patent Office D-80296 Munich see form Young, Astrid

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2006/002593

	and the second second			
***		ox y	lo. I Basis of the opinion	
ij,	With regard to the language, this opinion has been established on the basis of:			
	Ø	th	e international application in the language in which it was filed	
			translation of the international application into , which is the language of a translation furnished for the process of international search (Rules 12.3(a) and 23.1 (b)).	
2,	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. type of material:			
			a sequence listing	
			table(s) related to the sequence listing	
	b. format of material:			
			on paper	
			in electronic form	
c. time of filing/furnishing;		of filing/furn)shing:		
			contained in the international application as filed.	
			filed together with the international application in electronic form.	
		U	furnished subsequently to this Authority for the purposes of search.	
3.		00	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.	
ą.	Additional comments:			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/GB2006/002593

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of						
3	claims Nos. 12-16					
be	because;					
1 23	the said international application, or the said claims Nos. with respect to Industrial Applicability relate to the following subject matter which does not require an international search (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos, are so inadequately supported by the description that no meaningful opinion could be formed (specify):					
	no international search report has been established for the whole application or for said claims Nos.					
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit;					
	If turnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	If turnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 ter. 1(a) or (b).					
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.					
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See Supplemental Box for further details					

Form PCT/ISA/237 (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2006/002593

Box No. V Reasoned statement under Rule 43*bis.*1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-16

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-16

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and for

2. Non-written disclosures (Rules 43bis,1 and 70.9)

see form 210

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Form PCT/ISA/237 (April 2005)

Re Item III:

 Claims 12-16 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V:

- 2. The documents considered in the present processing are consecutively numbered D1-D4; this numbering results from the citations D1-D4 found in the International Search Report (ISR) of the corresponding PCT application. It will be adhered to in the rest of the procedure. The cited passage(s) for each citation will be considered unless otherwise specified.
- 3. The application refers to 3,11b-cis-dihydrotetrabenazine for use in halting or slowing the progress of one or more symptoms of Huntington's disease. Further, the use of 3,11b-cis-dihydrotetrabenazine in the preparation of a medicament for the treatment of one or more symptoms of Huntington's disease is claimed.
- Novelty, Article 33(2) PCT
 None of the cited prior art documents discloses compounds with the cis configuration at atoms 3 and 11 of dihydrotetrabenazine.
 - Thus, the subject-matter of claims 1-16 is considered novel within the meaning of Article 33(2) PCT.
- 5. Inventive Step, Article 33(3) PCT
 The object underlying the present application is the provision of a medicament for halting or slowing the progress of one or more symptoms of Huntington's disease. The posed solution is the use of 3,11b-cis-dihydrotetrabenazine in the preparation of a medicament.

The use of tetrabenazine for the treatment of Huntington's disease has been known since long ago. It was further known, that the major metabolite is dihydrotetrabenazine, which is believed to be primarily responsible for the activity of

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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the drug. Hitherto only the trans isomers of 3,11b-dihydrotetrabenazine were known and used in medicine. However, the skilled person would have reasonably expected that also the cisisomers show at least the same activity as the trans-isomers.

Thus, it is considered that the subject-matter of claims 1-16 does not involve an inventive step over the disclosure of D3 and D4 within the meaning of Article 33(3) PCT.

Re Item VI:

Certain published documents (Rule 70.10)

D1: WO 2005/077946 A (CAMBRIDGE LAB LTD [GB]; TRIDGETT ROBERT [GB]; CLARKE IAN [GB]; TURTLE) 25 August 2005 (2005-08-25)
D2: WO 2006/053067 A2 (PRESTWICK PHARMACEUTICALS INC [US]; CLARENCE-SMITH KATHLEEN [US]) 18 May 2006 (2006-05-18)

The above cited documents could become relevant for the assessment of novelty by entering the regional European phase.

Re Item VIII:

7. Claims 14 and 16 relate to a compound for use, method or use.
These claims are considered unclear since they leave the reader in doubt about the category of the said claims, Article 6 PCT.